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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|------------------------|---|------------------|
| 10/663,598 | 09/16/2003 | Gerald Winton Lankford | 1578.109 3266 (11119-US-PAT) EXAMINER | |
| 54120 | 7590 11/27/2006 | | | |
| RESEARCH IN MOTION, LTD 102 DECKER CT. | | | KARIKARI, KWASI | |
| SUITE 180 | KCI. | | ART UNIT | PAPER NUMBER |
| IRVING, TX | X 75062 | • | 2617 | |

DATE MAILED: 11/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | | |
|---|---|---|--|--------|--|--|--|
| Office Action Summary | | 10/663,598 | LANKFORD, GERALD WINTON | | | | |
| | | Examiner | Art Unit | | | | |
| | | Kwasi Karikari | 2617 | | | | |
| The MAILING DATE of the Period for Reply | nis communication app | ears on the cover sheet with the c | | Idress | | | |
| A SHORTENED STATUTORY WHICHEVER IS LONGER, FR - Extensions of time may be available undurafter SIX (6) MONTHS from the mailing of If NO period for reply is specified above, - Failure to reply within the set or extended. | COM THE MAILING DA er the provisions of 37 CFR 1.13 ate of this communication. the maximum statutory period w i period for reply will, by statute, in three months after the mailing | 'IS SET TO EXPIRE 3 MONTH(: ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 111 apply and will expire SIX (6) MONTHS from 112 cause the application to become ABANDONE 113 date of this communication, even if timely filed | l. ely filed the mailing date of this c (35 U.S.C. § 133). | | | | |
| Status | | | | | | | |
| 1) Responsive to communic | cation(s) filed on 02 Oc | ctober 2006. | | | | | |
| 2a) ☐ This action is FINAL . | | action is non-final. | | | | | |
| <u>-</u> | <u></u> | | | | | | |
| · · | | x parte Quayle, 1935 C.D. 11, 45 | | | | | |
| Disposition of Claims | • | | · | | | | |
| 4)⊠ Claim(s) 1-7 9-11 and 13 | R-20 is/are pending in t | he application | | | | | |
| 4) Claim(s) 1-7,9-11 and 13-20 is/are pending in the application. 4a) Of the above claim(s) 8 and 12 (Canceled) is/are withdrawn from consideration. | | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | | |
| 6) Claim(s) <u>1-7,9-11 and 13-20</u> is/are rejected. | | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | | |
| 8) Claim(s) are subject | | election requirement. | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | | |
| Application Papers | | | | | | | |
| 9) The specification is objected to by the Examiner. | | | | | | | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| Attachment(s) | | _ | | | | | |
| Notice of References Cited (PTO-89) Notice of Draftsperson's Patent Draw | | 4) Linterview Summary Paper No(s)/Mail Da | | | | | |
| 2) Notice of Draftsperson's Patent Drav B) Information Disclosure Statement(s) Paper No(s)/Mail Date | - | 5) Notice of Informal P. 6) Other: | | | | | |

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DETAILED ACTION

1. Claims 8 and 12 have been cancelled.

Response to Arguments

2. Applicant's arguments with respect to claims 1-7,9-11 and 13-20 have been considered but are moot in view of the new ground(s) of rejection.

In response to applicant's argument that Sanchez Ferreras et al., (U.S. 20050118998 A1), (hereinafter Sanchez) does not teach the mobile nodes identified in terms of their respective home network portion nor provide a roaming network table usable subsequently to determine roaming capability of selected coverage areas, the examiner maintains that Sanchez discusses such claim languages (see Pars. 0029, 0036-37,0043, and 0046-47]). Furthermore, Sanchez teaches that subscriber's entry and exit information at the network are periodically eliminated from the log table, and the possibility of a periodic cleaning of data stored in the log (see Pars. [0013 and 0055]).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 2, 6,9-11, 13, 14 and 20 are rejected under U.S.C. 102(e) as being anticipated by Sanchez Ferreras et al., (U.S. 20050118998 A1), (hereinafter Sanchez).

Regarding **claims 1 and 13**, Sanchez discloses an apparatus for a communication system having multiple portions, said apparatus comprises:

a detector (processor 4 detects and reads all the information that passes through it, see Pars. [0005] and [0045]) adapted to receive values of positional information associated with mobile nodes (mobile network can detect mobile terminals, see Par. [0017]), during operation thereof to communicate by way of network portions (HLR, VLR and gateway 2) in whose coverage area that the mobile nodes, respectively, are positioned said detector configured to form indications of the values of the positional information (processor 4 continuous reads information exchange, see Par. [0025]);

an associator adapted to receive the indications formed by said detector of the values of the positional information (analyzer 6, collects information, analyzes information of a location changes, see Par. [0006 and 0029]), said associator configured to associate position of each of the mobile nodes with corresponding network portions (the information are report such that terminals can obtain service while

they are in foreign network, see Pars. [0023-25] and [0029]), respectively, through which communication are effectuated, thereby to identify roaming relationship between each of the mobile nodes and the corresponding network portion when the mobile nodes are roaming (foreign networks) and

a storage element coupled to said associator, said storage element configured to store values representative of associations formed by said associator, the values together forming a roaming network table indicating the roaming relationships (the database 7 has information of which subscribers are located in a foreign network, see Par. [0026] and the database incorporates a log table which could be updated with a each network change, see Pars. [0041-42, 0012 and 0033]), the value forming entries, the mobile nodes identified in terms of their respective home network portion (see Pars. 0029, 0043 and 0047) and individual one of the entries deleted when aged beyond a selected age (subscriber's entry and exit information at the network are periodically eliminated from the log table, and the possibility of a periodic cleaning of data stored in the log, see Pars. [0013 and 0055]; whereby the cleaning and updating are associated with "deleting network entries when aged" and the log is being associated with the "roaming network table"), the roaming network table accessible to identify the roaming relationships identified therein (the database 7 has information of which subscribers are located in a foreign network, see Par. [0026] and the database incorporates a log table which could be updated with a each network change, see Pars. [0012, 0041-42, 0032-36]), usable subsequently to determine roaming capability of selected coverage areas of selected network portions (see Pars. [0036-37 and 0046]).

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Regarding claims 2 and 14, Sanchez discloses the apparatus of claims 1 and 15 wherein each mobile nodes (mobile terminals, see Par. [0017 and 0025]) has an identifier (subscriber's profile, see Pars. [0021 and 0043]) associated therewith and wherein said detector is further adapted to receive the identifier and for detecting values thereof (processor 4 continuous reads information exchange, see Par. [0025]).

Regarding **claims 6 and 9**, Sanchez discloses an apparatus as recited in claims 1 and 15, wherein each node registers with a network portion of the multiple network portions (HLR, VLR and gateway 2) at selected times (location update every time mobile terminal changes location, see Page 2, line [0021]) and wherein the positional information detected by said detector is communicated by each mobile node (mobile terminals, see Par. [0017 and 0025]) pursuant to registration with the network part; the roaming network table further includes an indication of a time at which the values representative of the associations are stored at said storage element; and the roaming table further comprises identifying times at which values are entered thereat (table contains date of the last location update, see Pars. [0018, 0020-23, 0043-45 and 0049]).

Regarding **claim 10**, as recited in claim 9, Sanchez discloses a roaming network table further includes and indication of time at which the values representative of the associations are stored at said storage element, when aged beyond the selected age (subscriber's entry and exit information at the network are periodically eliminated/updated from the log table, see Par. [0055]),

Regarding **claim 11**, as recited in claim 10, Sanchez discloses wherein said roaming entry deleter deletes values of the roaming network (foreign network) table stored thereat for longer than a selected time period, the selected time period identifying aging beyond the selected age (subscriber's entry and exit information at the network are periodically eliminated from the log table, see Pars. [0013 and 0055]),

Regarding **claim 20**, as recited in claim 13, Sanchez discloses the operation of deleting entries out of the roaming network table <u>once aged beyond the selected age</u> (subscriber's entry and exit information at the network are periodically eliminated from the log table, see Pars. [0013 and 0055]),

4. Claims 3-5, 7 and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sanchez as applied in view of Aerrabotu et al., (U.S. 20040190522 A1), (hereinafter Aerrabotu).

Regarding **claims 3 and 15**, as recited in claims 2 and 14, Sanchez teaches mobile terminals, (see Par. [0017 and 0025]), but fails wherein the radio communication system comprises a cellular radio communication system that provides for GPRS (General Packet Radio Service).

Aerrabotu teaches that the International Mobile Subscriber Identity (IMSI) is used as the mobile station identity in GPRS attach procedure when the mobile station does

not have a SIM in a packet-switched data domain (see Pars. [0010] and [0014] respectively).

It would therefore have been obvious to one of the ordinary skill in the art to combine the teaching of Aerrabotu with Sanchez's system in achieving a packet-switched data domain that enables call connection between mobile station and the network.

Regarding **claims 4 and 16**, as recited in claims 3 and 15, Sanchez further teaches the apparatus/method wherein at least the portion of the IMSI number (MSISDN which correspond to the mobile telephone number, see Par. [0043]) includes a Mobile Network Code (MNC) (the country code of the network in which it is located, see Par. [0043]), the Mobile Network Code identifying a home network portion associated with each mobile (mobile terminals, see Par. [0017 and 0025]) node; the home network portion of the multiple network portions (consultation is made at the HLR and VLR when the subscriber enter into a new network, see Par. [0037]).

Regarding claims 5 and 17, as recited in claims 3 and 15 Sanchez further disclose apparatus/method wherein the IMSI number (MSISDN which correspond to the mobile telephone number, see Par. [0043]) includes a Mobile Country Code (MCC) and wherein the at least the portion of the IMSI number of which said detector detects the values comprises the Mobile Country Code; and at least the portion of the IMSI number comprises a mobile country code (the country code of the network in which it is located, see Par. [0043]).

Regarding **claim 7**, as recited in claim in claim 1, Sanchez teaches mobile terminals (see Par. [0017 and 0025]), but fails to disclose wherein communications of the mobile node are formatted into messages, the messages having header parts, and wherein the positional information detected by said detector is embodied in the header parts of the messages.

Aerrabotu teaches an incoming call IP address for device and the regulating packet flow which is use for Internet messaging subsystem (see Par. [0016])

It would therefore have been obvious to one of the ordinary skill in the art to combine the teachings' of Aerrabotu with Sanchez's system in achieving a wireless communication system that is capable of providing Internet messaging in a packet switched data domain.

Regarding claim 18, Sanchez further discloses an apparatus as recited in claims 1 and 15, wherein each node registers with a network portion of the multiple network portions (HLR, VLR and gateway 2) at selected times (location update every time mobile terminal changes location, see Page 2, line [0021]) and wherein the positional information detected by said detector is communicated by each mobile node (mobile terminals, see Par. [0017 and 0025]) pursuant to registration with the network part; the roaming network table further includes an indication of a time at which the values representative of the associations are stored at said storage element; and the roaming table further comprises identifying times at which values are entered thereat (table contains date of the last location update, see Pars. [0018, 0020-23, 0043-45 and 0049]).

Regarding **claim 19**, recited in claim 18, Sanchez further discloses the operations of accessing the roaming network table and determining the roaming relationships indicated therein (see Page 3, lines [0032-0036]).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Froula (U.S. 6,356,767) teaches a method and apparatus for controlling mobile access to a wireless communication system.

AMIN et al., (U.S. 20020086671 A1) teaches a roaming authorization system

Dufva et al. (U.S. 20040087315 A1) teach a location services interworking with intelligent network.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kwasi Karikari whose telephone number is 571-272-8566. The examiner can normally be reached on M-F (8 am - 4pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8566.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kwasi Karikari Patent Examiner.

SUPERVISORY PATENT EXAMINER